

OSCO

0700280

OIPC

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date:

12/17/2001

Edited by:

Verified by:

Serial Number: 10/002,854

#4 ENTERED

- Changed a file from non-ASCII to ASCII #4
- Changed the margins in cases where the sequence text was wrapped down to the next line.
- Edited a formal error in the Current Application Data section, specifically:
-
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:
-
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
-
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
-
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included: ..
-
- Deleted extra, invalid, headings used by an applicant, specifically:
-
- Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/lastname at end of file; page numbers throughout text; other invalid text, such as _____.
- Inserted mandatory headings, specifically: _____
-
- Corrected an obvious error in the response, specifically:
-
- Edited identifiers where upper case is used but lower case is required, or vice versa.
-
- Corrected an error in the Number of Sequences field, specifically:
-
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
-
- Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- Other: Seq 2 - corrected amino acid numbering

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,854

DATE: 12/17/2001
TIME: 20:19:56

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12172001\J002854.raw

4 <110> APPLICANT: Scadden, David T.
 5 Poznansky, Mark C.
 6 Olszak, Ivona T.
 7 Brown, Edward M.
 9 <120> TITLE OF INVENTION: THE CAR RECEPTOR AS A MEDIATOR OF
 10 MIGRATORY CELL CHEMOTAXIS AND/OR CHEMOKINESIS
 13 <130> FILE REFERENCE: M0765/7038/ERG/KA
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/002,854
 C--> 15 <141> CURRENT FILING DATE: 2001-11-01
 15 <150> PRIOR APPLICATION NUMBER: PCT/US00/15440
 16 <151> PRIOR FILING DATE: 2000-06-02
 18 <160> NUMBER OF SEQ ID NOS: 2
 20 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 3361
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <220> FEATURE:
 28 <221> NAME/KEY: CDS
 29 <222> LOCATION: (29)...(3262)
 30 <223> OTHER INFORMATION: Ca-sensing Receptor
 32 <400> SEQUENCE: 1
 33 tcccttgcggcc ttggagagacg gcagaacc atg gca ttt tat agc tgc tgc tgg 52
 34 Met Ala Phe Tyr Ser Cys Cys Trp
 35 1 5
 37 gtc ctc ttg gca ctc acc tgg cac acc tct gcc tac ggg cca gac cag 100
 38 Val Leu Leu Ala Leu Thr Trp His Thr Ser Ala Tyr Gly Pro Asp Gln
 39 10 15 20
 41 cga gcc caa aag aag ggg gac att atc ctt ggg ggg ctc ttt cct att 148
 42 Arg Ala Gln Lys Lys Gly Asp Ile Ile Leu Gly Lys Leu Phe Pro Ile
 43 25 30 35 40
 45 cat ttt gga gta gca gct aaa gat caa gag ctc aaa tca agg ccg gag 196
 46 His Phe Gly Val Ala Ala Lys Asp Gln Asp Leu Lys Ser Arg Pro Glu
 47 45 50 55
 49 tct gtg gaa tgt atc agg tat aat ttc cgt ggg ttt cgc tgg tta cag 244
 50 Ser Val Glu Cys Ile Arg Tyr Asn Phe Arg Gly Phe Arg Trp Leu Gln
 51 60 65 70
 53 gct atg ata ttt gcc ata gag gag ata aac agc agc cca gcc ctt ctt 292
 54 Ala Met Ile Phe Ala Ile Glu Glu Ile Asn Ser Ser Pro Ala Leu Leu
 55 75 80 85
 57 ccc aac ttg acc ctg gga tac agg ata ttt gac act tgc aac acc gtt 340
 58 Pro Asn Leu Thr Leu Gly Tyr Arg Ile Phe Asp Thr Cys Asn Thr Val
 59 90 95 100
 61 tct aag gcc ttg gaa gcc acc ctg agt ttt gtt gct caa aac aaa att 388
 62 Ser Lys Ala Leu Glu Ala Thr Leu Ser Phe Val Ala Gln Asn Lys Ile
 63 105 110 115 120
 65 gat tct ttg aac ctt gat gag ttc tgc aac tgc tca gag cac att ccc 436

RAW SEQUENCE LISTING
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Input Set : A:\Pto.amc
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66	Asp Ser Leu Asn Leu Asp Glu Phe Cys Asn Cys Ser Glu His Ile Pro	
67	125 130 135	
69	tct acg att gct gtg gtc gga gca act ggc tca ggc gtc tcc acg gca	484
70	Ser Thr Ile Ala Val Val Gly Ala Thr Gly Ser Gly Val Ser Thr Ala	
71	140 145 150	
73	gtg gca aat ctg ctg ggg ctc ttc tac att ccc cag gtc agt tat gcc	532
74	Val Ala Asn Leu Leu Gly Leu Phe Tyr Ile Pro Gln Val Ser Tyr Ala	
75	155 160 165	
77	tcc tcc agc aga ctc ctc agc aac aag aat caa ttc aag tct ttc ctc	580
78	Ser Ser Arg Leu Leu Ser Asn Lys Asn Gln Phe Lys Ser Phe Leu	
79	170 175 180	
81	cga acc atc ccc aat gat gag cac cag gcc act ggc atg gca gac atc	628
82	Arg Thr Ile Pro Asn Asp Glu His Gln Ala Thr Ala Met Ala Asp Ile	
83	185 190 195 200	
85	atc gag tat ttc cgc tgg aac tgg gtc gca att gca gct gat gac	676
86	Ile Glu Tyr Phe Arg Trp Asn Trp Val Gly Thr Ile Ala Ala Asp Asp	
87	205 210 215	
89	gac tat ggg cgg cgg ggg att gag aat ttc cga gag gaa gct gag gaa	724
90	Asp Tyr Gly Arg Pro Gly Ile Glu Lys Phe Arg Glu Ala Glu Glu	
91	220 225 230	
93	agg gat atc tgc atc gac ttc agt gaa ctc atc tcc cag tac tct gat	772
94	Arg Asp Ile Cys Ile Asp Phe Ser Glu Leu Ile Ser Gln Tyr Ser Asp	
95	235 240 245	
97	gag gag gag atc cag cat gtc gta gag gtc att caa aat tcc acg gcc	820
98	Glu Glu Glu Ile Gln His Val Val Glu Val Ile Gln Asn Ser Thr Ala	
99	250 255 260	
101	aaa gtc atc gtc gtt ttc tcc aat ggc cca gat ctt gag ccc ctc atc	868
102	Lys Val Ile Val Val Phe Ser Ser Gly Pro Asp Leu Glu Pro Leu Ile	
103	265 270 275 280	
105	aag gag att gtc cgg cgc aat atc acg ggc aag atc tgg ctg gcc agc	916
106	Lys Glu Ile Val Arg Arg Asn Ile Thr Gly Lys Ile Trp Leu Ala Ser	
107	285 290 295	
109	gag gcc tgg gcc agc tcc tcc ctg atc gcc atg cct cag tac ttc cac	964
110	Glu Ala Trp Ala Ser Ser Ser Leu Ile Ala Met Pro Gln Tyr Phe His	
111	300 305 310	
113	gtg gtt ggc ggc acc att gga ttc gct ctg aag gct ggg cag atc cca	1012
114	Val Val Gly Gly Thr Ile Gly Phe Ala Leu Lys Ala Gly Gln Ile Pro	
115	315 320 325	
117	ggc ttc cgg gaa ttc ctg aag aag gtc cat ccc agg aag aat tct gtc cac	1060
118	Gly Phe Arg Glu Phe Leu Lys Lys Val His Pro Arg Lys Ser Val His	
119	330 335 340	
121	aat ggt ttt gcc aag gag ttt tgg gaa gaa aca ttt aac tgc cac ctc	1108
122	Asn Gly Phe Ala Lys Glu Phe Trp Glu Glu Thr Phe Asn Cys His Leu	
123	345 350 355 360	
125	caa gaa ggt gca aaa gga cct tta cct gtc gac acc ttt ctg aga ggt	1156
126	Gln Glu Gly Ala Lys Gly Pro Leu Pro Val Asp Thr Phe Leu Arg Gly	
127	365 370 375	
129	cac gaa gaa agt ggc gac agg ttt agc aac aag tcg aca gcc ttc cga	1204
130	His Glu Glu Ser Gly Asp Arg Phe Ser Asn Ser Ser Thr Ala Phe Arg	

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Input Set : A:\Pto.amc
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131	380	385	390	
133	ccc ctc tgt aca ggg gat gag aac atc agc agt gtc gag acc cct tac			1252
134	Pro Leu Cys Thr Gly Asp Glu Asn Ile Ser Ser Val Glu Thr Pro Tyr			
135	395	400	405	
137	ata gat tac acg cat tta cgg ata tcc tac aat gtg tac tta gca gtc			1300
138	Ile Asp Tyr Thr His Leu Arg Ile Ser Tyr Asn Val Tyr Leu Ala Val			
139	410	415	420	
141	tac tcc att gcc cac gcc ttg caa gat ata tat acc tgc tta cct ggg			1348
142	Tyr Ser Ile Ala His Ala Leu Gln Asp Ile Tyr Thr Cys Leu Pro Gly			
143	425	430	435	440
145	aga ggg ctc ttc acc aat ggc tcc tgc gca gac atc aag aaa gtt gag			1396
146	Arg Gly Leu Phe Thr Asn Gly Ser Cys Ala Asp Ile Lys Lys Val Glu			
147	445	450	455	
149	gcc tgg cag gtc ctg aag cac cta cgg cat cta aac ttt aca aac aat			1444
150	Ala Trp Gln Val Leu Lys His Leu Arg His Leu Asn Phe Thr Asn Asn			
151	460	465	470	
153	atg ggg gag cag gtg acc ttt gat gag tgc ttt gac ctg gtg ggg aac			1492
154	Met Gly Glu Gln Val Thr Phe Asp Glu Cys Gly Asp Leu Val Gly Asn			
155	475	480	485	
157	tat tcc atc atc aac tgg cac ctc tcc cca gag gat ggc tcc atc gtg			1540
158	Tyr Ser Ile Ile Asn Trp His Leu Ser Pro Glu Asp Gly Ser Ile Val			
159	490	495	500	
161	ttt aag gaa gtc ggg tat tac aac gtc tat gcc aag aag gga aag aya			1588
162	Phe Lys Glu Val Gly Tyr Tyr Asn Val Tyr Ala Lys Lys Gly Glu Arg			
163	505	510	515	520
165	ctc ttc atc aac gag gag aaa atc ctg tgg agt ggg ttc tcc agg gag			1636
166	Leu Phe Ile Asn Glu Glu Lys Ile Leu Trp Ser Gly Phe Ser Arg Glu			
167	525	530	535	
169	gtg ccc ttc tcc aac tgc agc cga gac tgc ctg gca ggg acc agg aaa			1684
170	Val Pro Phe Ser Asn Cys Ser Arg Asp Cys Ieu Ala Gly Thr Arg Lys			
171	540	545	550	
173	ggg atc att gag ggg gag ccc acc tgc tgc ttt gag tgc ttt gtg gag ttt			1732
174	Gly Ile Ile Glu Gly Glu Pro Thr Cys Cys Phe Glu Cys Val Glu Cys			
175	555	560	565	
177	cct gat ggg gag tat agt gat gag aca gat gcc agt gcc ttt aac aag			1780
178	Pro Asp Gly Glu Tyr Ser Asp Glu Thr Asp Ala Ser Ala Cys Asn Lys			
179	570	575	580	
181	tgc cca gat gac ttc tgg tcc aat gag aac cac acc tcc tgc att gcc			1828
182	Cys Pro Asp Asp Phe Trp Ser Asn Glu Asn His Thr Ser Cys Ile Ala			
183	585	590	595	600
185	aag gag atc gag ttt ctg tcg tgg acg gag ccc ttt ggg atc gca ctc			1876
186	Lys Glu Ile Glu Phe Leu Ser Trp Thr Glu Pro Phe Gly Ile Ala Leu			
187	605	610	615	
189	acc ctc ttt gcc gtg ctg ggc att ttc ctg aca gcc ttt gtg ctg ggt			1924
190	Thr Leu Phe Ala Val Leu Gly Ile Phe Leu Thr Ala Phe Val Leu Gly			
191	620	625	630	
193	gtg ttt atc aag ttc cgc aac aca ccc att gtc aag gcc acc aac cga			1972
194	Val Phe Ile Lys Phe Arg Asn Thr Pro Ile Val Lys Ala Thr Asn Arg			
195	635	640	645	

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197	gag ctc tcc tac ctc ctc ttc tcc ctg ctc tgc tgc ttc tcc agc	2020
198	Glu Leu Ser Tyr Leu Leu Phe Ser Leu Leu Cys Cys Phe Ser Ser	
199	650 655 660	
201	tcc ctg ttc ttc atc ggg gag ccc cag gac tgg acy tgc cgc ctg cgc	2068
202	Ser Leu Phe Phe Ile Gly Glu Pro Gln Asp Trp Thr Cys Arg Leu Arg	
203	665 670 675 680	
205	cag ccg gcc ttt ggc atc agc ttc gtg ctc tgc atc tca tgc atc ctg	2116
206	Gln Pro Ala Phe Gly Ile Ser Phe Val Leu Cys Ile Ser Cys Ile Leu	
207	685 690 695	
209	gtg aaa acc aac cgt gtc ctc ctg gtg ttt gag gcc aag atc ccc acc	2164
210	Val Lys Thr Asn Arg Val Leu Leu Val Phe Glu Ala Lys Ile Pro Thr	
211	700 705 710	
213	agc ttc cac cgc aag tgg tgg ggg ctc aac ctg cag ttc ctg ctg gtt	2212
214	Ser Phe His Arg Lys Trp Trp Gly Leu Asn Leu Gln Phe Leu Leu Val	
215	715 720 725	
217	ttc ctc tgc acc ttc atg cag att gtc atc tgt gtg atc tgg ctc tac	2260
218	Phe Leu Cys Thr Phe Met Gln Ile Val Ile Cys Val Ile Trp Leu Tyr	
219	730 735 740	
221	acc gcg ccc ccc tca agc tac cgc aac cag gag ctg gag gat gag atc	2308
222	Thr Ala Pro Pro Ser Ser Tyr Arg Asn Gln Glu Leu Glu Asp Glu Ile	
223	745 750 755 760	
225	atc ttc atc acg tgc cac gag ggc tcc ctc atg gcc ctg ggc ttc ctg	2356
226	Ile Phe Ile Thr Cys His Glu Gly Ser Leu Met Ala Leu Gly Phe Leu	
227	765 770 775	
229	atc ggc tac acc tgc ctg ctg gct gcc atc tgc ttc ttc ttt gcc ttc	2404
230	Ile Gly Tyr Thr Cys Leu Leu Ala Ala Ile Cys Phe Phe Ala Phe	
231	780 785 790	
233	aag tcc cgg aag ctg ccc gag aac ttc aat gaa gcc aag ttc atc acc	2452
234	Lys Ser Arg Lys Leu Pro Glu Asn Phe Asn Glu Ala Lys Phe Ile Thr	
235	795 800 805	
237	ttc agc atg ctc atc ttc ttc atc gtc tgg atc tcc ttc att cca gcc	2500
238	Phe Ser Met Leu Ile Phe Phe Ile Val Trp Ile Ser Phe Ile Pro Ala	
239	810 815 820	
241	tat gcc agc acc tat ggc aag ttt gtc tct gcc gta gag gtg att gcc	2548
242	Tyr Ala Ser Thr Tyr Gly Lys Phe Val Ser Ala Val Glu Val Ile Ala	
243	825 830 835 840	
245	atc ctg gcc gcc agc ttt ggc ttg ctg cgg tgc atc ttc aac aag	2596
246	Ile Leu Ala Ala Ser Phe Gly Leu Leu Ala Cys Ile Phe Phe Asn Lys	
247	845 850 855	
249	acc tac atc att ctc ttc aag cca tcc cgc aac acc atc gag gag gtg	2644
250	Thr Tyr Ile Ile Leu Phe Lys Pro Ser Arg Asn Thr Ile Glu Glu Val	
251	860 865 870	
253	cgt tgc agc acc gca cgt cac gct ttc aag gtg gct gcc cgg gcc acg	2692
254	Arg Cys Ser Thr Ala Arg His Ala Phe Lys Val Ala Ala Arg Ala Thr	
255	875 880 885	
257	ctg cgc cgc agc aac gtc tcc cgc aag cgg tcc agc agc aac ctt gga ggc	2740
258	Leu Arg Arg Ser Asn Val Ser Arg Lys Arg Ser Ser Leu Gly Gly	
259	890 895 900	
261	tcc acg gga tcc acc ccc tcc tcc tcc atc agc agc aag agc aac agc	2788

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Input Set : A:\Pto.amc
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262	Ser Thr Gly Ser Thr Pro Ser Ser Ile Ser Ser Lys Ser Asn Ser			
263	905	910	915	920
265	gaa gac cca ttc cca cag ccc gag agg cag aag cag cag cag ccg ctg			2836
266	Glu Asp Pro Phe Pro Gln Pro Glu Arg Gln Lys Gln Gln Pro Leu			
267	925	930	935	
269	gcc cta acc cag caa gag cag cag cag ccc ctg acc ctc cca cag			2884
270	Ala Leu Thr Gln Gln Glu Gln Gln Gln Pro Leu Thr Leu Pro Gln			
271	940	945	.	950
273	cag caa cga tct cag cag cag ccc aga tgc aag cag aag gtc atc ttt			2932
274	Gln Gln Arg Ser Gln Gln Gln Pro Arg Cys Lys Gln Lys Val Ile Phe			
275	955	960	965	
277	ggc agg ggc acg gtc acc ttc tca ctg agc ttt gat gag cct cag aag			2980
278	Gly Ser Gly Thr Val Thr Phe Ser Leu Ser Phe Asp Glu Pro Gln Lys			
279	970	975	980	
281	aac gcc atg gcc cac agg aat tct acg cac cag aac tcc ctg gag gcc			3028
282	Asn Ala Met Ala His Arg Asn Ser Thr His Gln Asn Ser Leu Glu Ala			
283	985	990	995	1000
285	cag aaa agc agc gat acg ctg acc cga cac cag cca tta ctc ccg ctg			3076
286	Gln Lys Ser Ser Asp Thr Leu Thr Arg His Gln Pro Leu Leu Pro Leu			
287	1005	1010	1015	
289	cag tgc ggg gaa acg gac tta gat ctg acc gtc cag gaa aca ggt ctg			3124
290	Gln Cys Gly Glu Thr Asp Leu Asp Leu Thr Val Gln Glu Thr Gly Leu			
291	1020	1025	1030	
293	caa gga cct gtg ggt gga gac gag cgg cca gag gtg gag gac cct gaa			3172
294	Gln Gly Pro Val Gly Gly Asp Gln Arg Pro Glu Val Glu Asp Pro Glu			
295	1035	1040	1045	
297	gag ttg tcc cca gca ctt gta gtg tcc agt tca cag agc ttt gtc atc			3220
298	Glu Leu Ser Pro Ala Leu Val Val Ser Ser Gln Ser Phe Val Ile			
299	1050	1055	1060	
301	agt ggt gga ggc agc act gtt aca gaa aac gta gtg aat tca			3262
302	Ser Gly Gly Ser Thr Val Thr Glu Asn Val Val Asn Ser			
303	1065	1070	1075	
305	taaaatggaa ggagaagact gggcttaggaa gaatgcagag aggtttcttg gggcccccagg			3322
306	gatgaggaaat cccccccagac tcctttccct tgaggaga			3361
308	<210> SEQ ID NO: 2			
309	<211> LENGTH: 1078			
310	<212> TYPE: PRT			
311	<213> ORGANISM: Homo sapiens			
313	<220> FEATURE:			
314	<221> NAME/KEY: PEPTIDE			
315	<222> LOCATION: (1)...(1078)			
316	<223> OTHER INFORMATION: Ca-sensing Receptor			
318	<400> SEQUENCE: 2			
319	Met Ala Phe Tyr Ser Cys Cys Trp Val Leu Leu Ala Leu Thr Trp His			
320	1	5	10	15
321	Thr Ser Ala Tyr Gly Pro Asp Gln Arg Ala Gln Lys Lys Gly Asp Ile			
322	20	25	30	
323	Ile Leu Gly Gly Leu Phe Pro Ile His Phe Gly Val Ala Ala Lys Asp			
324	35	40	45	

VERIFICATION SUMMARY DATE: 12/17/2001
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Input Set : A:\Pto.amc
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L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date